

IN THE ABSTRACT

Please substitute the following Abstract for the Abstract as originally filed:

A method, apparatus, and article of manufacture provide a mechanism for inserting performance code markers into programs to obtain and provide data regarding the run-time operation of the programs. The computing system has an init module ~~for determining if the run-time internal state data is to be collected during the operation of the application program~~, a performance code marker module for obtaining and storing the run-time internal state data for later retrieval, and an uninit module ~~for formatting and storing the obtained run-time internal state data into memory that permits retrieval after the termination of the application program~~. The init module is executed before any run-time internal state data is collected. The performance code marker module is executed each time run-time internal state data is to be collected. The uninit module is executed after all run-time internal state data desired has been collected. ~~The method and computer data product relate to a computer implemented process that inserts one or more code markers into the application program at locations within the application program corresponding to the point at which run-time internal state data is desired and that determines if run-time internal state data is to be collected at each code marker by checking for the existence of processing modules identified by an identification key within a system registry.~~ If run-time internal state data is to be collected at each code marker, the computer process generates a performance data record containing the collected run-time internal state data each time the code markers are reached, stores the performance data records within a data memory block within the processing modules identified by the identification key within the system registry, and retrieves the performance data records from the data memory block for transfer to a mass storage device once all of the run-time internal state data has been collected.